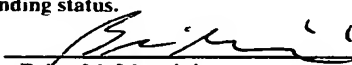


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|--|--|---|--|---|--|
| FORM PTO-1390<br>(REV 1-2003)  |  | U.S. Department of Commerce Patent and Trademark Office |  | ATTORNEY'S DOCKET NUMBER<br><br>CR00570P                            |  |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371   |  |   |  | U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/531785</b> |  |
|  |  |   |  |   |  |
| INTERNATIONAL APPLICATION NO.<br><br>PCT/EP2003/050767   |  | INTERNATIONAL FILING DATE<br><br>OCTOBER 30, 2003       |  | PRIORITY DATE CLAIMED<br><br>OCTOBER 31, 2002                       |  |
| TITLE OF INVENTION:<br>CHANNEL ESTIMATION USING THE GUARD INTERVAL OF A MULTICARRIER SIGNAL  |  |   |  |   |  |
| APPLICANT(S) FOR DO/EO/US<br>MARKUS MUCK   |  |   |  |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |  |   |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input checked="" type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |   |  |   |  |
| Items 11 to 20 below concern other document(s) or information included:  |  |   |  |   |  |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>   |  |   |  |   |  |

|  |              |   |            |                        |              |
|--|--------------|---|------------|------------------------|--------------|
| U.S. Application No. (if known, see 37 CFR 1.5)  |              | International Application No.   |            | Attorney Docket Number |              |
| 10/531785  |              | PCT/EP2003/050767   |            | CR00570P               |              |
| The following fees have been submitted:  |              |   |            | CALCULATIONS           | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee.....\$300   |              |   |            | \$300.00               |              |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100<br>All other situations..... \$200  |              |   |            | \$100.00               |              |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100<br>International Search Report prepared and provided to the Office.....\$400<br>All other situations.....\$500   |              |   |            | \$100.00               |              |
| <b>TOTAL OF 21, 22 AND 23=</b>   |              |   |            | \$                     |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |            |                        |              |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |                        |              |
| -100 =   | /50 =        |   | x \$250    | \$                     |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).   |              |   |            | \$                     |              |
| Claims   | Number Filed | Number Extra  | Rate       |                        |              |
| Total Claims   | - 20 =       |   | x \$50.00  | \$                     |              |
| Independent Claims   | - 3 =        |   | x \$200.00 | \$                     |              |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)  |              |   |            | + \$360.00             | \$           |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |            | \$                     |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |            | \$                     |              |
| <b>SUBTOTAL =</b>  |              |   |            | \$                     |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  |              |   |            | + \$130.00             |              |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |            | \$                     |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |   |            | + \$40.00              |              |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |            | \$                     |              |
|  |              |   |            | Amount to be refunded: | \$           |
|  |              |   |            | Amount to be Charged:  | \$           |
| <p>a. <input type="checkbox"/> A check in the amount of \$_____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>502117</u> in the amount of \$_____ to cover the above fees.<br/>A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>502117</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information any authorization on PTO - 2038.</p> <p><b>Note:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the international application to pending status.</p> <p>Send all correspondence to:</p> <div style="display: flex; justify-content: space-between;"> <div> <p>Motorola, Inc.<br/>Intellectual Property Department<br/>1303 E. Algonquin Road<br/>IL01-3rd Floor<br/>Schaumburg, Illinois 60196</p> </div> <div style="text-align: right;"> <br/> <p>Brian M. Mancini<br/>Attorney for Applicant(s)<br/>Reg. No.: 39,288<br/>Telephone: 847-576-3992<br/>Fax No.: 847-576-3750</p> </div> </div> |              |   |            |                        |              |

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## PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: MOTOROLA, INC INT'L APPLICATION NO: PCT/EP2003/050767  
CASE NO.: CR00570P INT'L FILE DATE: OCTOBER 30, 2003  
ENTITLED: CHANNEL ESTIMATION USING THE GUARD INTERVAL OF A  
MULTICARRIER SIGNAL

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Motorola, Inc.  
Corporate Offices  
1303 E. Algonquin Road  
Schaumburg, Illinois 60196  
April 18, 2005

CERTIFICATE OF EXPRESS MAILING / FILING UNDER 35 U.S.C. 371

BOX PCT  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22213-1450

Sir:

I certify that the above-referenced FILING UNDER 35 U.S.C. 371 was deposited, postage prepaid, as Express Mail having the mailing label number written below with the United States Postal Service addressed to:

BOX PCT  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22213-1450

on April 18, 2005

By: Nanette [Signature]

Date: April 18, 2005

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